

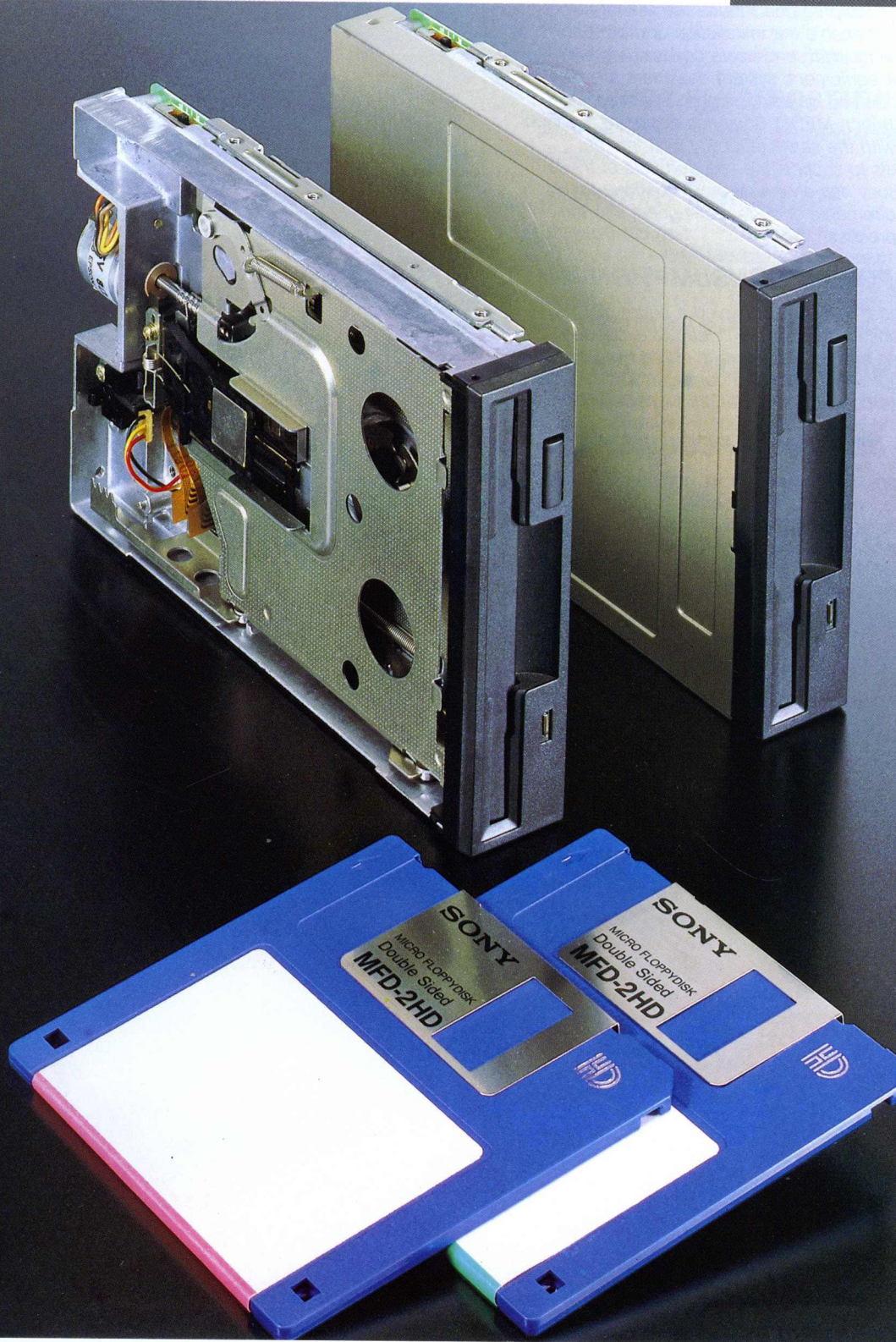
SONY®

OEM

Sony Micro Floppydisk Drives

MP-F11W (1MB)
MP-F17W (2MB)

The New 1 inch Height 3.5 inch Micro
Floppydisk Drive (1MB/2MB) from the
Industry's Leading Supplier



High Capacity, High Speed, and High Reliability through Innovative Technology

1 INCH HEIGHT

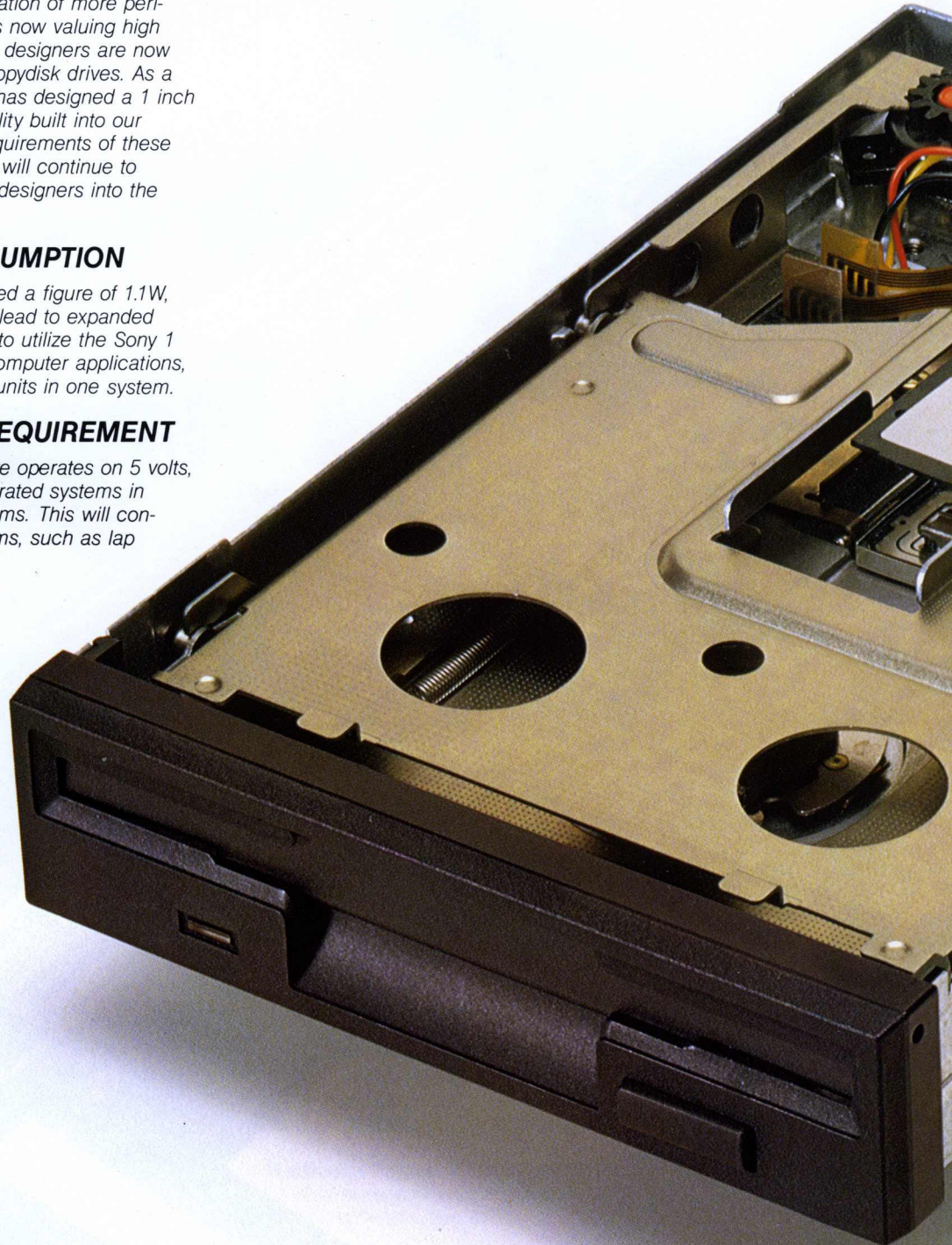
Drives with a smaller footprint can reduce the size of newly-designed systems and enable the installation of more peripherals into old systems. With end users now valuing high performance in their equipment, system designers are now installing more peripherals, including floppydisk drives. As a forerunner of the 3.5 inch MFDD, Sony has designed a 1 inch height drive series with the same reliability built into our 30 mm height models to support the requirements of these system designers. Sony has always and will continue to incorporate the requirements of system designers into the drive development process.

SUPER LOW POWER CONSUMPTION

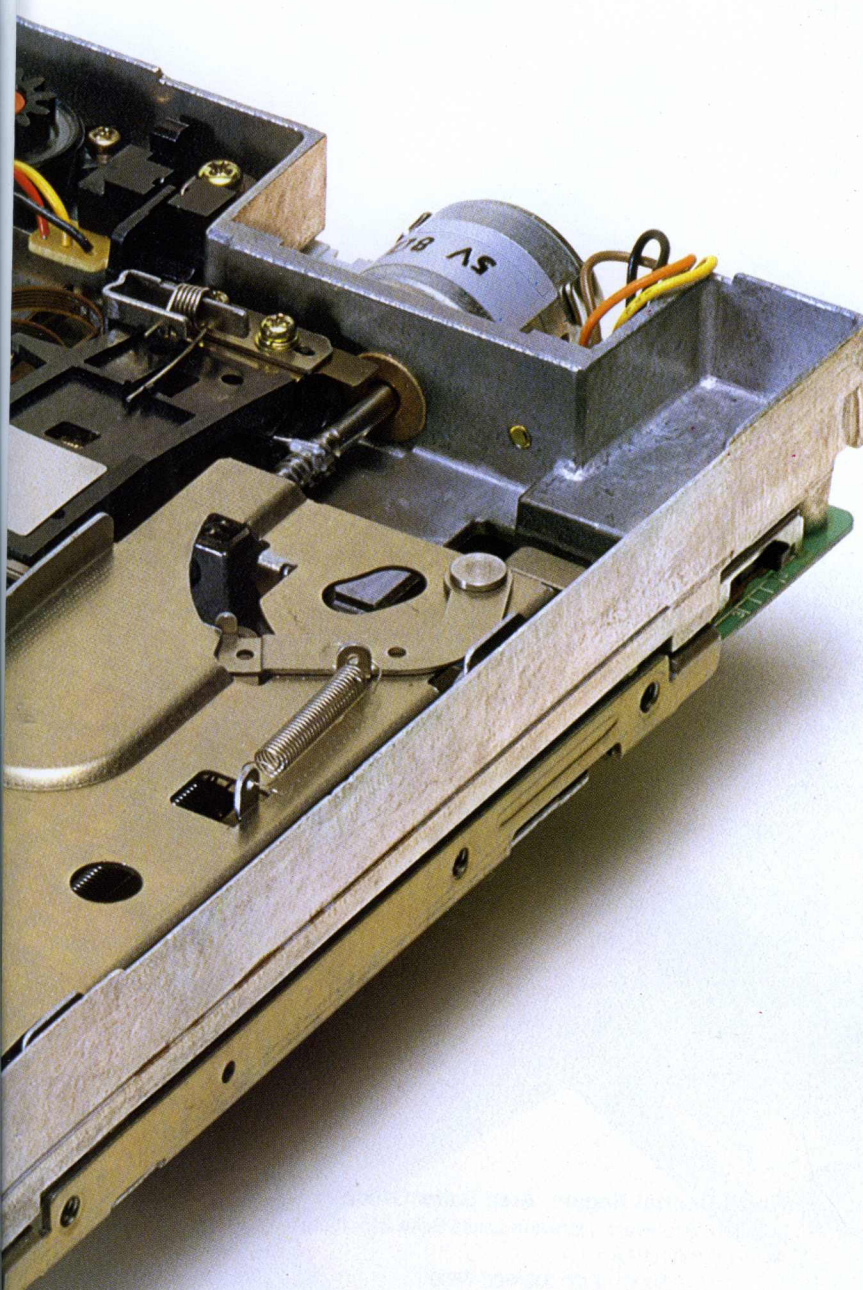
In the operating mode, Sony has achieved a figure of 1.1W, super low power consumption. This will lead to expanded applications, allowing system designers to utilize the Sony 1 inch drive line-up, not only in portable computer applications, but in standard systems with additional units in one system.

5 VOLT ONLY DC POWER REQUIREMENT

The fact that the Sony 1 inch height drive operates on 5 volts, widens the usage to include battery-operated systems in addition to conventionally-powered systems. This will conserve space for use in small print systems, such as lap top computers.



Since 1982, Sony Corporation has shipped over 4 million units of 3.5 inch Micro Floppydisk Drives, continuously improving the development process and manufacturing technology. Utilizing such vast experience, Sony has taken many of the striking features and high performance characteristics that have made the Sony drive an extremely reliable, reputable product and is proud to introduce a full line of newly designed 1 inch height models. With innovative technology and higher reliability, Sony can confidently offer OEM customers a competitive edge.



VERSATILE INSTALLATION

A newly-designed head carriage enables the drive to be installed in the system vertically, horizontally and sideways, allowing flexibility in system designing.

SUPERIOR ELECTROSTATIC DISCHARGE

With the unique design of the 1 inch height drives, Sony has achieved a competitive ESD figure.

ANTI-DUST STRUCTURE

Because the new 1 inch height models are designed in an anti-dust structure, the chances of read/write errors caused by dust or other foreign particles entering the drives are eliminated. This helps the Sony 1 inch height series endure harsh environments and expands possible applications.

EXCELLENT NOISE IMMUNITY

In addition to an anti-dust structure, the head is also protected from Electro-Magnetic Interference by ring and shielding materials. This results in improved drive reliability.

HIGH RELIABILITY

An innovative design approach enabled a 20% reduction of the number of parts that are used in Sony's conventional models. This resulted in improving the MTBF figure to 30,000 POH by simplifying the drive structure and improving overall reliability.

SPECIFICATIONS

| Model | | MP-F11W-50D | MP-F17W-50D |
|--------------------------------|---------------------|-----------------------------|--|
| Unformatted Recording Capacity | | 1.0 M bytes | 2.0 M/1.0 M bytes |
| Data Transfer Rate | | 250 K bps | 250 K bps (1 MB Mode) 500 K bps (2 MB Mode) |
| Rotational Speed | | 300 RPM | 300 RPM |
| Access Time | Track to Track | 3 ms | 3 ms |
| | Settling | 15 ms | 15 ms |
| | Average | 95 ms | 95 ms |
| Average Latency | | 100 ms | 100 ms |
| Motor-On to Ready Time | | 500 ms max. | 500 ms max. |
| Recording Density | | 8,717 BPI | 17,434/8,717 BPI |
| Number of Tracks | | 160 | 160 |
| Track Density | | 135 TPI | 135 TPI |
| Encoding Method | | MFM | MFM |
| Environmental | Ambient Temperature | 5°C to 50°C (40°F to 122°F) | 5°C to 50°C (40°F to 122°F) |
| | Relative Humidity | 8% to 80% | 8% to 80% |
| | Maximum Wet Bulb | 29°C (85°F) | 29°C (85°F) |
| Mechanical Dimensions | Height | 25.4 mm | 25.4 mm |
| | Width | 101.6 mm | 101.6 mm |
| | Depth | 150.0 mm | 150.0 mm |
| Weight | | 425 g | 425 g |
| MTBF | | 30,000 P.O.H. | 30,000 P.O.H. |
| MTTR | | 30 min. | 30 min. |
| Error Rates | Soft | 1 in 10 ⁹ bits | 1 in 10 ⁹ bits |
| | Hard | 1 in 10 ¹² bits | 1 in 10 ¹² bits |
| | Seek | 1 in 10 ⁶ seeks | 1 in 10 ⁶ seeks |
| 3.5" Media | | 2DD (1 MB Mode) | 2HD (2 MB Mode) 2DD (1 MB Mode) |

Input Power Requirements

| | | |
|-----------------------------------|-----------------------|----------------------------|
| DC Power Requirement | +5V ± 10% | |
| Power Dissipation (TTL Interface) | Stand-by Operating | 0.1W (max.) 1.1W (typ.) |

(Specifications are subject to change without notice.)

● For further information, please contact:

Sony Corporation of America, Disk Memory Group
655 River Oaks Parkway, San Jose, California 95134 U.S.A.
Tel: 408-432-0190 Fax: 408-943-0740

Western Region, Areas Sales Office
10833 Valley View Street, Cypress, California 90630-0016 U.S.A.
Tel: 714-229-4195 Fax: 714-229-4271

Central Region, Area Sales Office
3201 Premier Drive, Suite 100, Irving, Texas 75063-2658 U.S.A.
Tel: 214-550-5200 Fax: 214-550-5300

North Central Region, Area Sales Office
500 Park Boulevard, Hamilton Lakes Suite 245, Itasca,
Illinois 60143 U.S.A.
Tel: 312-773-6000 Fax: 312-860-7809

Northeast Region, Area Sales Office
57 Wells Avenue, Newton, Massachusetts 02159 U.S.A.
Tel: 617-527-4560 Fax: 617-244-2518

Sony Corporation
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